# **UNITED STATES MARINE CORPS**





# The road to success for MOS 6074

**Cryogenics Equipment Operator** 

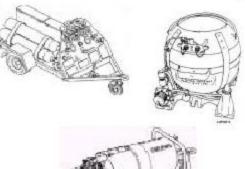
USMC 6074 to 6019













































#### **OVERVIEW:**

The "Road Map to Success" is a training initiative to give every Marine a <u>guideline</u> from which to plan their career. Each MOS Road Map details the MOS Training, PME, Voluntary Education, and Billets <u>recommended</u> for each rank. These Road Maps <u>"should not"</u> be utilized by supervisors for performance evaluation of a Marine such as Proficiency/Conduct Marks or Fitness Reports, but as an option to enhance their future both in the military and beyond.

#### **Upon graduation from MOS school, Marine receives a brief on:**

Future MOS courses, MCI requirements, PME requirements, and the availability of college courses.

#### **Gaining Command:**

Realigns, supports, and enforces the road map.

## 1st Year

#### MOS: 6074, Cryogenics Equipment Operator

- > Complete Recruit Training
- ➤ Complete Marine Combat Training (MCT)
- ➤ Complete Cryogenics Equipment Operator (M041363)
- > Complete Naval Aviation Maintenance Program (NAMP) Indoctrination
- Complete Naval Aviation Occupational Safety and Health (NAVOSH) Indoctrination
- ➤ Maintenance On-the-Job Training (MOJT) as required per MCO P4790.20

#### PME:

➤ Complete MCI (3420E) Personal Finance

#### **Voluntary Education:**

An apprenticeship program for Cryogenics Equipment Operator is available at <a href="https://www.cnet.navy.mil/usmap/usmc\_trades.html">https://www.cnet.navy.mil/usmap/usmc\_trades.html</a>. This certification can used be in the future to attain B.S. Aviation Maintenance Management through Embry-Riddle Aeronautical University Navy Distance Learning Program. (http://www.erau.edu/ec/wwc/03navy\_prog.html).

#### **Duty:**

> Cryogenics Equipment Operator

#### **Special Duty:**

Recruiter's Assistance recommended prior to reporting to the FMF



# 2nd Year

#### MOS: 6074, Cryogenics Equipment Operator

- ➤ Progress toward Individual Training Standards System (ITSS) Marine Corps Maintenance Training Management and Evaluation Program (MATMEP) Level III Qualification as per MCO P4790.20
- Attend Fleet Aviation Specialized Operation <u>FASO (D-555-0038) Naval Aviation Visual Identification Display System/Subsystem Capability Impact Reporting Course</u>
- Attend FASO (D555-0023) Dispersed Technical Publication Librarian Course
- ➤ Begin Quality Assurance Collateral Duty Inspector (CDI) Syllabus
- ➤ Begin Enlisted Naval Aviation Training and Operations Procedures System (NATOPS) Ground Turn-up Qualification Training Syllabus (Auxiliary Power Unit/ Ground Maintenance Mode APU/GMM)

#### PME:

Complete MCI (033N) Fundamentals of Marine Corps Leadership

#### **Voluntary Education:**

An apprenticeship program for Cryogenics Equipment Operator is available at <a href="https://www.cnet.navy.mil/usmap/usmc\_trades.html">https://www.cnet.navy.mil/usmap/usmc\_trades.html</a>. This certification can used be in the future to attain B.S. Aviation Maintenance Management through Embry-Riddle Aeronautical University Navy Distance Learning Program. (<a href="https://www.erau.edu/ec/wwc/03navy\_prog.html">https://www.erau.edu/ec/wwc/03navy\_prog.html</a>).

#### **Duty:**

- > Cryogenics Equipment Operator
- W/C Assistant Collateral Duty Assignment (I.E. Tool Control NCO, Safety NCO, DTPL...)

#### **Special Duty:**

➤ None recommended until the rank of Sergeant



# 3rd Year

#### MOS: 6074, Cryogenics Equipment Operator

- ➤ Obtain ITSS MATMEP Level III Qualification as per MCO P4790.20
- ➤ Obtain Quality Assurance Collateral Duty Inspector Certification

#### PME:

- Complete MCI (6001AP) Aviation Maintenance Non-Commissioned Officer
- ➤ Read 2 books from the Commandant's Reading List

#### **Voluntary Education:**

An apprenticeship program for Cryogenics Equipment Operator is available at <a href="https://www.cnet.navy.mil/usmap/usmc\_trades.html">https://www.cnet.navy.mil/usmap/usmc\_trades.html</a>. This certification can used be in the future to attain B.S. Aviation Maintenance Management through Embry-Riddle Aeronautical University Navy Distance Learning Program. (<a href="http://www.erau.edu/ec/wwc/03navy\_prog.html">http://www.erau.edu/ec/wwc/03navy\_prog.html</a>).

# Duty:

- Cryogenics Equipment Operator
- > W/C Primary/Assistant Collateral Duty Assignment (I.E. Tool Control NCO, Safety NCO, DTPL...)

#### **Special Duty:**

None recommended until the rank of Sergeant





## 4th Year

#### MOS: 6074, Cryogenics Equipment Operator

- ➤ Progress toward ITSS MATMEP Level IV Qualification as per MCO P4790.20
- ➤ Begin Collateral Duty Quality Assurance Representative CDQAR training syllabus
- ➤ In preparation for future billets, the following courses are recommended:
  - Attend FASO (D-555-0041) Intermediate Maintenance Activity (IMA) Work center <u>Management/Documentation Procedures Course</u>
  - o Attend FASO (D-555-0043) IMA Production Control Procedures Course
- Attend FASO (D-555-0006/0046) Naval Aviation Quality Assurance Course

#### PME:

- ➤ Attend Corporal's Course (Resident)
- Complete MCI (8010) Sergeants Distance Education Program
- Complete MCI (605AP) Aviation Maintenance Work Center Supervisor
- Continue the Commandant's Reading List Program

#### **Voluntary Education:**

An apprenticeship program for Cryogenics Equipment Operator is available at <a href="https://www.cnet.navy.mil/usmap/usmc\_trades.html">https://www.cnet.navy.mil/usmap/usmc\_trades.html</a>. This certification can used be in the future to attain B.S. Aviation Maintenance Management through Embry-Riddle Aeronautical University Navy Distance Learning Program. (<a href="http://www.erau.edu/ec/wwc/03navy\_prog.html">http://www.erau.edu/ec/wwc/03navy\_prog.html</a>).

#### **Duty:**

- > Cryogenics Equipment Operator
- ➤ W/C Crew / Shift Leader
- W/C Primary Collateral Duty Assignment (I.E. Tool Control NCO, Safety NCO, DTPL...)
- ➤ W/C Quality Assurance Collateral Duty Inspector

#### **Special Duty:**

➤ None recommended until the rank of Sergeant



# Sergeant

#### MOS: 6074, Cryogenics Equipment Operator

- ➤ Progress toward ITSS MATMEP Level IV Qualification as per MCO P4790.20
- ➤ Begin Collateral Duty Quality Assurance Representative CDQAR training syllabus
- ➤ In preparation for future billets, the following courses are recommended:
  - o Attend FASO (D-555-0041) Intermediate Maintenance Activity (IMA) Work center Management/Documentation Procedures Course
  - o Attend FASO (D-555-0043) IMA Production Control Procedures Course
  - o Attend FASO (D-555-0006/0046) Naval Aviation Quality Assurance Course

#### PME:

- Attend Sergeant's Course (Resident)
- Complete MCI (7100) SNCO Career Distance Education Program
- ➤ Continue the Commandant's Reading List Program

#### **Voluntary Education:**

An apprenticeship program for Cryogenics Equipment Operator is available at <a href="https://www.cnet.navy.mil/usmap/usmc\_trades.html">https://www.cnet.navy.mil/usmap/usmc\_trades.html</a>. This certification can used be in the future to attain B.S. Aviation Maintenance Management through Embry-Riddle Aeronautical University Navy Distance Learning Program. (<a href="https://www.erau.edu/ec/wwc/03navy\_prog.html">https://www.erau.edu/ec/wwc/03navy\_prog.html</a>).

#### **Duty:**

- Recommend the following billet assignments:
  - o W/C Crew / Shift Leader
  - W/C ANCOIC/NCOIC
  - o W/C Quality Assurance Representative
  - Quality Assurance Representative
  - Production Controller

- Recommend one of the following special duty assignments:
  - Drill Instructor
  - o Recruiter
  - o Marine Security Guard
  - o MOS Instructor ("A" or "C" School)



# **Staff Sergeant**

#### MOS: 6074, Cryogenics Equipment Operator

- Work Center
  - o If not previously; attend <u>FASO (D-555-0041) Intermediate Maintenance Activity (IMA) Work center Management/Documentation Procedures</u> Course
- Production Control
  - o If not previously; attend FASO (D-555-0043) IMA Production Control Procedures Course
  - o Obtain Project/Priority Certification
- Quality Assurance
  - o If not previously; attend FASO (D-555-0006/0046) Naval Aviation Quality Assurance Course
  - Attend FASO (D-555-0007) Aviation Technical Publication Library Custodian Course
  - Obtain Quality Assurance Representative Qualification
- Attend Naval Aviation Maintenance Training Unit NAMTRAU (C-600-3210) Senior Enlisted Aviation Maintenance (SEAM) Course
- Submit Warrant Officer package if desired (8 years)

#### PME:

- ➤ Attend SNCO Career Course (Resident)
- ➤ Complete MCI (8200) SNCO Advanced Distance Education Program
- ➤ Complete MCI (606AP) Aviation Quality Assurance Supervisor
- Continue the Commandant's Reading List Program

#### **Voluntary Education:**

- ➤ Commence / Complete A.S. Professional Aeronautics Degree
- Commence Bachelors Degree in any of the following:
  - o B.S. Professional Aeronautics
  - o B.S. Aviation Maintenance Management (FAA A&P Required)
- Degree Completion Program

#### **Duty:**

- Recommend the following billet assignments:
  - W/C SNCOIC
  - o W/C Quality Assurance Representative
  - o Quality Assurance Representative
  - o Production Controller

- Recommend one of the following special duty assignments:
  - Drill Instructor
  - Recruiter
  - o Marine Security Guard
  - MOS Instructor ("A" or "C" School)



# **Gunnery Sergeant**

#### MOS: 6074, Cryogenics Equipment Operator

- ➤ Maintenance Control
  - o Attend FASO (D-555-0003) Naval Aviation Material Control Management Course
  - o Attend FASO (D-516-0001) Naval Aviation Weight and Balance Course
  - o Attend FASO (D-555-0039) Naval Aviation Logs and Records Course
- Quality Assurance
  - o Attend FASO (D-555-0039) Naval Aviation Logs and Records Course
- Attend Naval Aviation Maintenance Training Unit <u>NAMTRAU (C-600-3210)</u> Senior Enlisted Aviation <u>Maintenance (SEAM)</u> Course (SEAM II if available)
- Submit Warrant Officer package if desired

#### PME:

- ➤ Attend SNCO Advanced Course (Resident)
- Complete MCI (7400) Warfighting Skills Distance Education Program
- > Continue the Commandant's Reading List Program

#### **Voluntary Education:**

- ➤ Commence / Complete Bachelors Degree in any of the following:
  - o B.S. Professional Aeronautics
  - o B.S. Aviation Maintenance Management (FAA A&P Required)
  - o B.S. Technical Management Occupational Safety and Health Specialty
  - o B.S. Technical Management Logistics Specialty
- Degree Completion Program

#### **Duty:**

- Recommend the following billet assignments:
  - o W/C SNCOIC/Division Chief
  - o Quality Assurance Division Chief
  - o Maintenance/Production Control SNCOIC/Chief

- > Recommend one of the following special duty assignments:
  - o "B" Billet (if not previously)
  - o MOS Instructor ("A" or "C" School)
  - o CNAL AMMT / MAW LOGMAT Inspector



# **Master Sergeant**

#### MOS: 6019, Aircraft Maintenance Chief

- Attend FASO (D-555-0034) Naval Aviation Maintenance Officer Course
- Attend Naval Aviation Maintenance Training Unit NAMTRAU (C-600-3210) Senior Enlisted Aviation Maintenance (SEAM) Course (SEAM II under development)

#### PME:

- > Attend Maintenance Chief's Symposium
- ➤ Attend E-8 Seminar
- ➤ Continue the Commandant's Reading List Program

#### **Voluntary Education:**

- ➤ Commence Masters Degree in any of the following:
  - o M.S. Aeronautical Science
  - o M.S. Management
  - o M.S. Technical Management
  - o M.S. Technical Management Occupational Safety

#### **Duty:**

- Recommend the following duty assignments:
  - o Maintenance Control Chief (Squadron)
  - o Maintenance Chief (Squadron)
  - o Division Chief (MALS)
  - o Production Control Chief (MALS)

- > Recommend one of the following special duty assignments:
  - o HQMC
  - o SNCOIC MOS "A" or "C" School
  - o MAW LOGMAT Inspector



# **Master Gunnery Sergeant**

#### MOS: 6019, Aircraft Maintenance Chief

- ➤ If not previously; attend FASO (D-555-0034) Naval Aviation Maintenance Officer Course
- Attend Naval Aviation Maintenance Training Unit <u>NAMTRAU (C-600-3210) Senior Enlisted Aviation Maintenance (SEAM)</u> Course (SEAM II under development)

#### PME:

- > Attend Maintenance Chief's Symposium
- ➤ Attend E-9 Seminar
- > Attend Russell Leadership Conference
- ➤ Continue the Commandant's Reading List Program

#### **Voluntary Education:**

- ➤ Commence Masters Degree in any of the following:
  - o M.S. Aeronautical Science
  - o M.S. Management
  - o M.S. Technical Management
  - o M.S. Technical Management Occupational Safety

### **Duty:**

- > Recommend the following duty assignments:
  - o Maintenance Chief (Squadron, MALS, MAG, MAW)
  - o SNCOIC MOS "A" or "C" School
  - o MAW LOGMAT Chief Inspector

#### **Special Duty:**

**≻** HQMC



# **Aviation Maintenance Degrees**

The following degrees are available through the Navy College Program Distance Learning Partnership with Embry-Riddle Aeronautical University



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A.S. Aircraft Maintenance:		A.S. Professional Aeronautics:	
Occupational Specialty: Any MOS		Occupational Specialty: Any MOS	
Degree Requirements:	63	Degree Requirements:	60
Technical Core: (30 Semester Hours) General Aeronautics and Applications Aircraft Electrical Systems Theory Airframe Structures and Applications Airframes Systems and Applications Power Plant Theory and Applications Aircraft Propulsion and Applications  Technical Electives: (9 Semester Hours) Aviation Maintenance, Aeronautical Science, Avionics Technology, Management, Computer Science, and Electrical Engineering or Aircraft Maintenance Practicum and	3 3 4 3 4 4	Technical Core: (18 Semester Hours) History of Aviation, Aeronautical Science, Aviation Maintenance, Air Traffic Control, Safety, and Management  Technical Electives: (9 Semester Hours) Aviation Legislation Principles of Management Microeconomics	18 3 3 3 3
General Education: (33 Semester Hours) Communication Theory and Skills Lower Level Humanities Lower Level Social Sciences Introduction to Computer Based Systems or Introduction to Computers and Applications Principles of Management College Mathematics for Aviation or Quantitative Methods I or College Algebra College Mathematics for Aviation II or Statistics with Aviation Applications or Business Statistics Explorations in Physics	9 3 3 6 3 3 3 3	General Education: (27 Semester Hours) Communication Theory and Skills Lower Level Humanities Lower Level Social Science Introduction to Computer Based Systems or Introduction to Computers and Applications or Computer Science College Algebra Statistics with Aviation Applications or Business Statistics Explorations in Physics	9 3 3 3 3
Degree Summary: Technical Core Technical Electives General Education	30 9 33	Open Electives: (12 Semester Hours)  Degree Summary: Technical Core Technical Electives General Education Open Electives	18 9 27 12

All of the Degree Completion Courses described herein are available through the Navy College Program Distance Learning Partnership with Embry-Riddle Aeronautical University in Distance Learning (Online) and Resident Learning (Campus) formats. Most campus locations are within the vicinity of Marine Corps Bases/Stations.

# **Recommended ACE Accreditations**



#### **Military Education:**

Title	Military ID	ACE ID	Credits	Level
Recruit Training	808	MC-2204-0038	8	Lower
Cryogenics Equipment Operator (M041363)	M-750-6074	NV-1704-0429	Strand	Included
MCI Personal Finance	3420E	MC-1401-0009	1	Lower
MCI Fundamentals of USMC Leadership	033N	MC-1406-0023	1	Lower
Corporal's Course (Resident)	L9K	MC-1405-0051	4	Lower
Sergeant's Course (Resident)	T4M	MC-2204-0143	7	Lower
MCI Sergeants Distance Education	8010	MC-2204-0127	7	Lower
SNCO Career Course (Resident)	T8A	MC-2204-0140	7	Lower
SNCO Career Distance Education	7100	MC-2204-0139	4	Lower
SNCO Advanced Course (Resident)	T8H	MC-2204-0076	9	Lower
SNCO Advanced Distance Education	8200	MC-2204-0142	3	Lower
MCI Warfighting Skills Program	7400	MC-2204-0112	2	Lower
MCI Theory/Construction of Turbine Engines	602	MC-1710-0004	2	Vocational
MCI Aviation Maintenance NCO	6001A	MC-1704-0010	3	Lower
MCI Aviation Maintenance W/C Supervisor	605	MC-1406-0042	2	Vocational
MCI Aviation Quality Assurance Supervisor	606A	MC-1405-0047	1	Lower
FASO Naval Aviation Logs and Records	D/E-555-0039	NV-1408-0046	2	Lower
FASO Naval Aviation Maintenance Control	D/E-555-0040	NV-1408-0047	2	Lower
Drill Instructor School	81E	MC-1406-0036	8	Lower
Recruiter School	81C	MC-0327-0001	5	Lower
Marine Security Guard School	81H	MC-1728-0006	4	Lower
Classroom Instructor (MOS) School	A-012-0077	NV-1406-0044	3/3	Low/Up

## Military Skills:

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Description	Military ID	ACE ID	Credits	Level
Level III ITSS MATMEP (SSgt)	6074	MCE-6074-001	5/2	Lower/Upper
Level IV ITSS MATMEP (GySgt)	6074	MCE-6074-001	2/3	Lower/Upper
Master Sergeant	6019	MCE-6019-001	9/9	Lower/Upper
Master Gunnery Sergeant	6019	MCE-6019-001	9/15	Lower/Upper

#### In the accreditation process:

- Military education may be primarily accredited toward Elective Credit Hours (General Education).
- Military skills may be primarily accredited toward Technical Credit Hours (Core Education).

